

WHAT IS CLAIMED IS:

1. A method of manufacturing a fuel cell, comprising:
  - defining first gas channels to supply a first reactive gas on a first substrate;
  - forming a first current-collecting layer to collect electrons generated through a reaction of the first reactive gas supplied through the first gas channels;
  - forming a first reacting layer to catalyze the first reactive gas supplied through the first gas channels;
  - forming an electrolyte membrane;
  - defining second gas channels to supply a second reactive gas on a second substrate;
  - forming a second current-collecting layer to supply the electrons for a reaction of the second reactive gas supplied through the second gas channels;
  - forming a second reacting layer to catalyze the second reactive gas supplied through the second gas channels; and
  - defining, in at least one of the defining of the first gas channels and the defining of the second gas channels, the gas channels by gas channel defining layers made of coatings formed by applying a first gas channel defining material onto at least one of the first substrate and the second substrate using a discharger.
2. The method of manufacturing a fuel cell according to claim 1, further including forming, in at least one of the defining of the first gas channels and the defining of the second gas channels, the coatings by repeatedly applying the first gas channel defining material using the discharger at regular intervals over areas onto which the gas channel defining layers are formed.
3. The method of manufacturing a fuel cell according to claim 1, further including, in at least one of the defining of the first gas channels and the defining of the second gas channels:
  - forming the coatings by repeatedly applying the first gas channel defining material using the discharger at regular intervals over areas onto which the gas channel defining layers are formed, and
  - further coating the coatings with a second gas channel defining material having a lower viscosity than the first gas channel defining material.
4. The method of manufacturing a fuel cell according to claim 1, further including using at least one of a thermosetting resin and a photocurable resin as at least one of the first gas channel defining material and the second gas channel defining material.

5. An electronic device, comprising:  
a fuel cell manufactured by the method according to claim 1 usable as a power supply.
6. An automobile, comprising:  
a fuel cell manufactured by the method according to claim 1 usable as a power supply.